

Section 166—Restoration or Alteration of Lakes and Ponds

166.1 General Description

This Specification gives the Contractor responsibility for altering or restoring a lake or pond and adjoining property. Refer to Subsection 107.13, “Protection and Restoration of Property and Landscape.”

166.1.01 Definitions

In this Specification, “lake” means “lake or pond,” regardless of its shape or size. Use the method indicated on the Plans and in the Proposal.

166.1.02 Related References

A. Standard Specifications

Section 107—Legal Regulations and Responsibility to the Public

B. Referenced Documents

General Provisions 101 through 150.

166.1.03 Submittals

General Provisions 101 through 150.

166.2 Materials

Materials required to complete the work are shown on the Plans or used as directed.

166.2.01 Delivery, Storage, and Handling

General Provisions 101 through 150.

166.3 Construction Requirements

166.3.01 Personnel

General Provisions 101 through 150.

166.3.02 Equipment

Provide equipment necessary to complete the work or as directed.

166.3.03 Preparation

General Provisions 101 through 150.

166.3.04 Fabrication

General Provisions 101 through 150.

166.3.05 Construction

A. Restore Lakes and Dams

When indicated on the Plans and in the Proposal, use the lake or pond area as a settling basin to contain silt, debris, or other foreign matter during the construction period.

Before the work begins, the Engineer will establish the condition of the lake and dam and determine the existing contours of the lake bottom. Restore lakes and dams as follows:

1. Remove, at no additional cost to the Department, the silt, etc., as often as necessary to avoid polluting the downstream area.
2. When roadway work progresses enough that a normal stand of grass can prevent erosion and pollution of the lake, excavate and clean the lake of foreign matter. Return the lake to the original contour and condition or proposed contour, if different than the original.
3. Dispose of material removed in a manner satisfactory to the Engineer.
4. After removing the deleterious materials from the lake, grade and grass disturbed areas not under water.

B. Alter Lakes or Ponds

If alteration is shown as a Pay Item, work shall include activities to change the physical size, shape, or depth of the lake; or to change the high-water level, or elevation of the dam or portions of it. This work shall be done according to the Plan details.

166.3.06 Quality Acceptance

General Provisions 101 through 150.

166.3.07 Contractor Warranty and Maintenance

General Provisions 101 through 150.

166.4 Measurement

Alteration or restoration of a lake is measured by the unit as indicated on the Plans and in the Proposal. Payment is full compensation for all necessary labor, equipment, tools, materials and incidentals required to complete the work to the satisfaction of the Engineer.

166.4.01 Limits

General Provisions 101 through 150.

166.5 Payment

Alteration or restoration of a lake is paid for at the Contract Unit Price bid per each for the specified operation as defined in Subsection 166.3.05, "Construction." Payment is full compensation for furnishing all labor, equipment, materials, tools and incidentals, and performing the work.

A. Restoration of a Lake

When the lake or pond is used as a settling basin, the work is paid for on the following schedule:

- Ten percent of the bid amount will be paid each time the lake or pond is cleaned of silt and debris during the construction period up to four occurrences.
- The remaining amount will be paid when the final cleaning and restoration are complete and accepted.

B. Alteration of a Lake

Alteration is paid on a pro-rata basis of the bid amount as the work progresses.

Payment will be made under:

Item No. 166	Restoration of lake, sta.____	Per each
Item No. 166	Alteration of lake, sta.____	Per each

166.5.01 Adjustments

General Provisions 101 through 150.

Section 167—Water Quality Monitoring**167.1 General Description**

Specifications for this work will be included elsewhere in the Contract.

Section 170—Silt Retention Barrier**170.1 General Description**

This work includes controlling water pollution where embankment construction or material removal may cause stream pollution.

Requirements of Sections 161, 162, and 163 apply to this Item. However, payment will not be made for erosion control items in those sections used with this work.